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## WHAT IS CLAIMED IS:

1. An apparatus for sending a ringing signal to notify a called terminal of the presence of an incoming 5 call addressed thereto, comprising:

ringing voltage generating means for generating a ringing voltage;

ringing signal sending means for sending out a ringing signal over a subscriber line by outputting the ringing voltage with a predetermined duty cycle of a ringing period and a silent period;

data transfer means for performing a data transfer to the called terminal over the subscriber line during one of the silent periods;

feed impedance setting means for providing a highimpedance feed voltage; and

feed impedance selection means for selecting a low-impedance feed voltage in the one of the silent periods during which the data transfer is performed, and selecting the high-impedance feed voltage in the other silent periods during which no data transfer is performed.

The apparatus according to claim 1, further comprising path set-up means for establishing a
 path to the called terminal only when the data transfer is scheduled.

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- 3. The apparatus according to claim 1, wherein said feed impedance setting means provides the high-impedance feed voltage by inserting a predetermined resistance in series with a power source in a subscriber line circuit (SLIC).
- 4. The apparatus according to claim 1, wherein:

said ringing voltage generating means comprises a

10 ringing voltage source and a ringing signal bias voltage
source; and

said feed impedance setting means comprises a resistor coupled to one of said ringing voltage source, said ringing signal bias voltage source, and said ringing voltage generating means itself.

- 5. The apparatus according to claim 1, wherein said feed impedance selection means selects the high-impedance feed voltage during a short interrupt period which is contained as part of the ringing period.
- 6. The apparatus according to claim 1, wherein said feed impedance selection means selects the high-impedance feed voltage for a predetermined period at the beginning and end of the one of the silent periods during which the data transfer is performed.

7. An apparatus for sending a ringing signal to inform a caller of the presence of an incoming call addressed thereto, comprising:

ringing voltage generating means for generating a 5 ringing voltage;

ringing signal sending means for sending out a ringing signal over a subscriber line by outputting the ringing voltage with a predetermined duty cycle of a ringing period and a silent period;

feed impedance setting means for providing a highimpedance feed voltage; and

feed impedance selection means for selecting the high-impedance feed voltage in the silent period to drive the subscriber line.

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8. The apparatus according to claim 7, wherein said impedance selection means selects the high-impedance feed voltage during a short interrupt period which is contained as part of the ringing period.

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